DOCKET NO: 291257US0PCT

## IN THE UNITED STATES PATENT & TRADEMARK OFFICE

IN RE APPLICATION OF

PETER HUNTEMANN, ET AL.

: EXAMINER: KASHNIKOW, ERIK

SERIAL NO: 10/581,449

FILED: JUNE 1, 2006

: GROUP ART UNIT: 1794

FOR: SYNTACTIC POLYURETHANE : CONTAINING OIL, PREFERABLY

CASTOR OIL

## DECLARATION UNDER 37 C.F.R. §1.132

COMMISSIONER FOR PATENTS ALEXANDRIA, VIRGINIA 22313

SIR:				
Now comes Tele Hun lemann who deposes and declares that:				
1. I am a graduate ofUniversity and received my				
degree in the year				
2. I have been employed by the Flas Vogsan BASF for the past				
21 years, as a researcher in the field of Pipe insulation / protection				
3. The following experiments were conducted by me or under my direct				
supervision and control.				
The polyurethane composition were tested as subsection with a length edge of 25 mm of 4 mm				
produced by mixing components described in Table 1 as follows:				

Components (parts by weight)	Example	Comparative Sample
Castor oil	58.75	2.5
Polyol 1 <sup>1</sup>	30	43.9
Polyol 2 <sup>2</sup>	-	31.65
Dipropylene glycol	7.3	18
Additive	3.95	3.95
Hollow microspheres	42	42

Based on propyleneoxide with an OH-number of 104

The additive contained a catalyst, defoamer and moisture scavenger added in 2.5 pbw of castor oil. The polyisocyanate component was Iso PMDI 92050, a diphenylmethanediisocyanate.

shapes (doybanes)

The eubes were stored in artificial seawater at a temperature of 80°C and the water uptake was measured at time intervals of 7 days, 14, days and 28 days. The data is as follows:

Water content after days (wt.%)	example	Comp example
0	0	0
7	2.0	3.6
14	2.3	3.8
28	2.0	3.7

The data demonstrates an increases uptake in water, indicative of hydrolysis of the syntactic polyurethane for the comparative sample containing only 2.5 pbw of castor oil as compared with the example containing 58.75 pbw of castor oil.

<sup>&</sup>lt;sup>2</sup>Based on propyleneoxide with an OH-number of 55

I declare under penalty of perjury under the laws of the United States of America

that the foregoing is believed to be true and correct. 28 USC 1746(1)

04.10,0

Date

## Wateruptake of Syntactic Foam with / without Castoroil

Temp.: 80°C ; Media: art. seawater Specimen: Normstab S 2;



BASF Gruppe

■ MV 35/02

polyethersystem 26,8 % Glassbubbles Type S 38 (2,5% Castoroil = 5% Zeolitepaste as moisturescavenger) Standardpolyethersystem

Elastoshore 2570/2 - Standard

56,2 % Castoroil in resin

26,8 % Glassbubbles Type S 38

